

# FACILITIES MAINTENANCE

A student who has completed Job Corps' Facilities Maintenance program is trained and ready to work in this field. To complete a trade, the student must learn the academic and vocational skills required for graduation. Job Corps students also learn good work and personal habits, preparing them for life after Job Corps. To complete the Facilities Maintenance program, a student must master skills in the following categories:

## Maintenance Helper

### GENERAL SAFETY

Use tools, ladders and scaffolding; know how to respond to an emergency situation; handle and store chemicals according to OSHA and Material Safety Data Sheets (MSDS) standards; identify safe work site procedures, including fall protection and fire safety equipment.

### LADDERS AND SCAFFOLDS

Select, position, raise and lower ladders; demonstrate proper use of scaffolding.

### MEASURING TOOLS AND EQUIPMENT

Identify and use basic measuring tools (tapes, squares, levels, plumb bobs, etc.).

### MATH

Perform basic math operations; lay out and make angular measurements, calculate square foot and linear measurements, compute volume (cubic yards) for concrete, and square corners using the 3-4-5 method.

### CARPENTRY MAINTENANCE

Identify and use basic hand tools, power tools, anchors and fasteners and carpentry-related materials; replace, repair or install siding, exterior trim, roof flashing, roofing, downspouts and guttering, dry wall, plaster walls, interior walls, ceilings, floor coverings and interior trim; perform weatherizing procedures.

### CONCRETE AND MASONRY MAINTENANCE

Identify and use basic hand tools, power tools, anchors and fasteners and concrete-related materials; set form, mix concrete, patch and/or repair concrete surfaces and mix mortar.

## **SURFACE FINISHING AND SEALING (DRYWALL AND WOOD)**

Identify and use basic hand and power tools and surface finishing-related materials; prepare surface for finish; select, prepare and apply finishing materials; clean and store finishing equipment and materials.

## **PLUMBING MAINTENANCE**

Identify and use basic hand and power tools, anchors and fasteners and plumbing-related materials; cut, clean and glue plastic pipe; assemble compression fittings; replace or repair plumbing fixtures, connections and accessories; clean or replace traps, drains and vents; identify backflow prevention; caulk around fixtures.

## **ELECTRICAL MAINTENANCE**

Identify and use basic hand and power tools, anchors and fasteners and electrical-related materials; use electrical test equipment; troubleshoot and repair or replace outlets, switches, fuses and fixtures; identify power supplies; wire low-voltage and 120V circuits; identify and correct defective two-wire and three-wire cords and plugs.

## **ENVIRONMENTAL CONTROL SYSTEMS**

Identify and use basic hand tools; replace or adjust belts and lubricate bearings; clean condensing units and evaporator coils; replace furnace or cooling filters.

## **BUILDING SAFETY SYSTEMS**

Locate shut-offs for electrical devices and plumbing fixtures; identify potential electrical hazards; check condition of emergency exit floor plans; test battery-operated smoke detectors; maintain emergency lighting systems, exit lights and signs.

## **GROUNDKEEPING**

Use and maintain groundskeeping equipment; identify and use basic hand tools; police grounds; prune trees and shrubs.

## **SWIMMING POOL MAINTENANCE (WHERE APPROPRIATE)**

Explain daily pool operations and water tests; explain spring start-up and fall shut-down procedures.

## **SNOW REMOVAL (WHERE APPROPRIATE)**

Remove snow and slush; remove ice with ice chippers or scrapers; prevent slip hazards using approved materials.

## Maintenance Technician

(Helper skills plus the following:)

### CARPENTRY MAINTENANCE

Replace, repair or install exterior and interior doors and opening hardware, windows, floor and wall tile, cabinets and shelving.

### CONCRETE AND MASONRY MAINTENANCE

Pour and finish concrete; remove, repair or replace walls, block, brick and stone.

### PLUMBING MAINTENANCE

Cut, prepare and solder copper pipe; cut and thread pipe; locate and repair leaks; service, repair or replace garbage disposals.

### ELECTRICAL MAINTENANCE

Troubleshoot and repair or replace conductors and breakers; bend and connect conduit, install, replace or service alarms, detectors and exterior lighting fixtures.

### ENVIRONMENTAL CONTROL SYSTEMS AND GROUNDSKEEPING

Replace electric motors and bearings; service pilot systems; clean or replace heating elements; troubleshoot and replace thermostats and controls; perform minor maintenance to groundskeeping equipment.



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